

THERMOELECTRIC HEAT EXCHANGER

Abstract of the Disclosure

Disclosed is a system for thermally conditioning and pumping a fluid having use as a ventilation system for vehicle seats and other applications. The system includes a thermoelectric heat exchanger having a thermoelectric element configured to pump heat from one body to another body. A pair of heat exchanger elements comprising rotor units are coupled to the thermoelectric element for both transferring heat to and from the thermoelectric element and generating a fluid flow across the thermoelectric element. The conditioned fluid may be placed in thermal communication with a variety of objects, one of which is a vehicle seat to provide localized heating and cooling of a person sitting on the seat.

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